

ABSTRACT

Enhancements allowing multiplexing of normal and robust data in wireless digital video transmissions using vestigial sideband modulation are implemented as an enhanced 5 vestigial sideband encoder on the studio side and a standard vestigial sideband modulator at the transmitter. The enhanced encoder conventionally processes multiplexed data into encoded packets, with backwards compatible parity data supplied for normal data, then deinterleaves the processed data, removes a trailing portion from each packet, and derandomizes the remainder before forwarding the processed encoded data as MPEG 10 compliant packets to the standard modulator for VSB modulation and transmission.